

**PHASED ARRAY ANTENNA WITH DISCRETE  
CAPACITIVE COUPLING AND ASSOCIATED METHODS**

**Abstract of the Disclosure**

A phased array antenna includes a substrate,  
and an array of dipole antenna elements on the substrate.  
Each dipole antenna element comprises a medial feed  
5 portion, and a pair of legs extending outwardly  
therefrom, and adjacent legs of adjacent dipole antenna  
elements include respective spaced apart end portions. A  
respective impedance element is electrically connected  
between the spaced apart end portions of adjacent legs of  
10 adjacent dipole antenna elements for providing increased  
capacitive coupling therebetween.